***************** (MT)

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MPsrch_pp protein - protein database search, using Smith-Waterman algorithm

Run on: Sat May 13 09:11:10 2000; MasPar time 3.26 Seconds 167.001 Million cell updates/sec

Tabular output not generated.

Description: Perfect Score: Sequence: >US-09-331-631-26 (1-23) from US09331631.pep 183 1 VKEDHQFETRGEILECYRLCQQQ 23

Scoring table: PAM 150 Gap 15

Searched: 188963 seqs, 23686106 residues

Post-processing: Minimum Match 0% Listing first 45 summaries

Database: a-geneseq35 1:geneseqp

Statistics:

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Mean 21.302; Variance 67.176; scale 0.317

SUMMARIES

Result No.	Score 183 74	Query Match 100.0	Length 23	1 B	ID W62839 W62840	Description Stenocarpus sinuatus a Stenocarpus sinuatus a	Pred. No. 4.06e-13 2.67e+00
ωŧ	71		143	ر سر	W42635	uence that	
4	67	σ.	611	ш	W02157	Periplasmic Beta-N-ace	
5	67	36.6	611	ш	W85599	Hexosaminidase enzyme.	1.43e+01
σ,	64		373	ب	R48703	G-protein coupled huma	2.89e+01
7	64	35.0	373	_	W02675		2.89e+01
80	64	5	446	ш	R15498		
9	64	IJ	446	<u>_</u>	R38364	D1	2.89e+01
. 10	. 64	5	446	۳	R15499	Rat dopamine D1 recept	2.89e+01
11	64	ū	487	ш	W09795	D1 dopamine receptor.	
12	64	35.0	487	<u>بــ</u>	R13596	D1 dopamine receptor.	2.89e+01
13	64		529	۲	W19001	Feline herpes virus ty	
14	63	34.4	768	μ.	W98108	s elega	3.65e+01
15	63	34.4	1608	Ь	R98619	Borna disease virus po	
16	63		1711	<u>س</u>	R98605		
17	61		1852	Ь	W79897	BRCA1 p	
18	61		1852	Н	W10011		
19	61	33.3	1863	Н	R81543	BRCA1 mutant from PM24	5.77e+01
20	61		1863	د	R81485	BRCAl mutant from pati	5.77e+01
21	61		1863	<u>سم</u>	W76099	Human BRCA1 omi2 prote	ர
22	61		1863	<u>_</u>	R81524	t from	5.77e+01
23	61		1002				E 770+01

45	44	43	42	41	40	39	3 8	37	36	35	34	33	32	31	30	29	28	27	26	25	24
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R81511	R81537	R81544	0	R81545	R81534	R81519	R81486	\sim	R81542	R81493	R81532	R99440	W76100	R81533	R81522	W26522	R81505	R81546	R81529	88	148
BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	BRCA1	Human	BRCA1	BRCA1	Human	BRCA1	BRCA1	BRCA1	Tumou	BRCAL
mutant	mutant	mutant	breast	mutant	mutant	mutant	mutant	, breast	mutant	mutant	mutant	allele	BRCA1 o	mutant	mutant	BRCA1	mutant	mutant	mutant	rogenic	mutant
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samp	PM12	PM25	ovar	PM26	PM03	samp	pati	ovar	PM23	pati	samp	tra	prote	PM01	samp	sus	samp	PM27	samp	pro	pati
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ALIGNMENTS

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WO9827805-A1. 02-UUL-1998. 22-DEC-1997; AU0874. 20-DEC-1996; AU-004275. (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY. BOWER NI, Goulter KC, Green JL, Manners JM, Marcus JP;	Stenocarpus sinuatus. Key Misc_difference 13 /note= "undefined amino acid"	.a La	LT 2 M62840 standard; Protein; 17 AA.	1 VKEDHOFETRGEILECYRLCQQQ 23	Query Match 100.0%; Score 183; DB 1; Length 23; Best Local Similarity 100.0%; Pred. No. 4.06e-13; Matches 23; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	W62839 standard; Protein; 23 AA. W62839; 27-OCT-1998 (first entry) Stenocarpus sinuatus antimicrobial protein. antimicrobial protein; infestation; control. Stenocarpus sinuatus. W0827805-A1. 22-DEC-1997; AU-004275. W09827805-A1. 22-DEC-1996; AU-004275. REFER-) COOP RES CENT TROPICAL PLANT PATHOLOGY. REFER-) COOP RES CENT TROPICAL PLANT PATHOLOGY. Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP; WPI; 98-377279/32. WPI; 98-377279/32. WPI; 98-377279/32. WOVEL anti-microbial protein from e.g. Macadamia integrifolia - useful for controlling microbial infestations of plants or mammals Claim 1; Page 65; 96pp; English. The sequence is that of an antimicrobial protein which can be used to control microbial infestations in plants and mammalian animals. Sequence 23 AA;

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                                                                                                                                                                                     N. lactamica, except for the genes involved in biosynthesis of the CC capsule polysaccharide, frpA or C, opc, porA, rotamase, sequence IC1106, CC IGA protease, pillin, pilC, proteins which bind transferrin and opacity proteins. The DNA sequences are found on chromosome Z2491, mainly (or within 20 kb) between tufA and pilT (region 1), pilQ and lambda-740 (region 2) or argF and opaB (region 3). The DNA sequences are responsible for the differences in pathogenicity between N. meningitidis and CC N. meningitidis to cross the blood-brain barrier. DNA sequences common to N. meningitidis and N. gonorrheae, but absent from N. lactamica, are responsible for colonisation and penetration of the mucosa. The DNA sequences can be used to produce probes and primers, and antibodies produced against the encoded proteins are used in standard hymmunoassay processes for diagnosis of N. meningitidis colorisation/immunoassay processes for diagnosis of N. meningitidis colorisation processes for diagnosis of N. meningitidis colorisation processes for diagnosis of N. meningitidis colorisation processes
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          meningitidis infection and in protective vaccines claim 8; Pages 90-91; 150pp; French. Claim 8; Pages 90-91; 150pp; French. W42633-37 and W42639-41 are encoded by a DNA sequence found in region of Nelsseria meningitidis. The specification describes DNA sequences that are found in N. meningitidis, but not in N. gonorrheae or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genes present in Neisseria meningitidis but not other Neisseria species - and related host cells, RNA, anti-sense sequences, polypeptide(s) and antibodies, useful for diagnosing Neisseria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Novel anti-microbial protein from e.g. Macadamia integrifol useful for controlling microbial infestations of plants or Claim 1; Page 66; 96pp: English.

The sequence is that of an antimicrobial protein which can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         W42635 standard;
W42635;
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12-JUL-1996; FR-008768.
(INRM ) INSERM INST NAT SANTE & RECH MEDICALE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Neisseria meningitidis.
WO9802547-A2.
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gonorrheae; N. lactamica; chromosome Z2491; region 1; region 2;
gion 3; pathogenicity; blood-brain barrier; diagnosis; infection;
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    QFETRGEILECYR
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                                                                                                                      38.8%;
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Pred. No. 5.
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5.52e+00;
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2.67e+00;
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Best Local :
                                                                     N-PSDB; V83129.

N-PSDB; V83129.

Laundry and cleaning compositions containing hexosaminidase - to provide antimicrobial activity and remove biofilm

Claim 2; Page 38-39; 64pp; English.

Novel hexosaminidase enzymes (W85599-605) can be used in combination in an aqueous laundry or cleaning product. The cleaning product is used especially used to launder fabrics and to clean product is used especially used to launder fabrics and to clean dishes and tableware, particularly in an automatic dishwasher, but may also be used generally as hard surface cleaner. The cleaning product imparts antimicrobial activity and/or elliminates biofilm, the hexosaminidases having a minimum inhibitory concentration of less than about 0.125% but more preferably less than about 0.025%.
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N-PSDB; 736388.

Chitin biosynthetic enzymes end I, exo I and exo II - are periplasmic chito:dextrinase(s), periplasmic beta-GlcNAcidase(s) and aryl beta-N-acetyl:gluco:amidase(s), respectively

Claim 10; Page 73-75; 101pp; English.

Periplasmic chitodextrinase (W02156), periplasmic

Beta-N-acetylglucosaminidase (W02157) and aryl

Beta-N-acetylglucosaminidase (W02158) can be used to produce chitin oligosaccharides with the structure (GlcNAc)n where n is 2 or higher, by contacting them with soluble chitin. The enzymes are encoded by the genes endI, exoI and exoII respectively. They are
                                                                                                                                                                                                                                                                                                                                                                                                                       05-MAY-1998; U09125.
19-AUG-1997; US-056132.
06-MAY-1997; US-045756.
(PROC ) PROCTER & GAMBLE CO.
Convents AC, Moese RL, Wolff AM;
WPI; 99-024116/02.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  anti-microbial; detergent; surfactant. Unidentified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hexosaminidase;
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Periplasmic Beta-N-acetylglucosaminidase.
Periplasmic chitodextrinase, periplasmic Beta-N-acetylglucosaminidase;
Beta-N-acetylglucosamidase; chitin; oligosaccharide; catabolic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO9850512-A1.
12-NOV-1998.
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02-MAR-1999
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N-PSDB; T36388.
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13-FEB-1995; US-386727.
(UYJO ) UNIV JOHNS HOPE
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                                                          (NB: entry was revised
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               254 IKDAPRFKYRGMMLDCAR 271
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Pred. No. 1.
5; Mismatc
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1.43e+01
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PT Polypeptides of G-coupled receptor proteins (GPRs) - useful for PT binding GPR ligands or modulating GPR protein coupled receptor CC proteins R48685-R48758 represent a range of G-protein coupled receptor CC proteins selected from CAMP, adenosine, muscarinic acetylcholine, open coupled receptor in the CC cadrenergic, thrombin, endothelin, bombesin, endocrine, rhodopsin, opsin, cC codorant, cytomegaloviral and other G-protein coupled receptors. The CC receptor proteins were used to design polypeptides, pref. based on the CC transmembrane domains, for use in G-protein coupled receptor ligand CC transmembrane domains, for use in G-protein coupled receptor ligand CC such as binding a GPR ligand or modulating GPR ligand binding to a GPR CC (see R48759-R48758, R50569-R50807 and R89189-R89195 for examples of CC (see R48759-R48758, R50569-R50807 and R89189-R89195 for examples of CC compositions for treating subjects suffering from a pathology related to CC a GPR abnormality e.g. a psychotic disorder such as schizophrenia.
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Best Local s
Matches
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                                                                                                                                          US5508384-A.
16-APR-1996.
10-SEP-1992; 943236.
10-SEP-1992; US-943236.
09-SEP-1993; US-118270.
(UYNY) UNIV NEW YORK STATE.
MUTPHY RB. SCHUSTET DI;
WPI; 96-208785/21.
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10-SEP-1992; US-943236.
(UVNY ) UNIV NEW YORK STAY
MURPHY RB, Schuster DI;
WPI; 94-101120/12.
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WO9405695-A1.
17-MAR-1994.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            G-protein coupled human dopamine D1 receptor.
G-protein coupled receptor; ligand binding assay; transmembrane schizophrenia; dopamine; cAMP; adenosine; thrombin; adrenergic; muscarinic acetylcholine; endothelin; bombesin; endocrine; rhodo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               G-protein coupled human dopamine D1 receptor protein.
G-protein coupled receptor; ligand binding assay; transmembrane domain; psychotic disorder; schizophrenia; dopamine; cAMP; adenosine; thrombin; muscarinic acetylcholine; adrenergic; endothelin; bombesin; endocrine;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens.
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les 6; Conse
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dopamine receptor peptide - useful as antipsychotic agent, e.g. treating schizophrenia treating schizophrenia closure; Column 77-80; 184pp; English. teins W02657-W02730 represent a range of G-protein coupled receptor
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5; Mismatches 6;
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No. 2.89e+01;
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rhodopsin;
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Query Match
Best Local Similarity
WO9118005-A.
28-NOV-1991; U03308.
13-MAY-1991; U05-523237.
14-MAY-1990; US-523237.
17-SEP-1990; US-583852.
(UYDU-) DUKE UNIV.
(UYOR-) OREGON HEALTH SCI UNIV.
Bunzow JR, Civelli O, Grandy DK, Zh
Bunzow JR, Falardeau P, Gingrich JA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GPR) proteins selected from cAMP, adenosine, muscarinic acetylcholine, adrenergic, thrombin, endothelin, bombesin, endocrine, rhodopsin, opsin, odorant, cytomegaloviral and other GPR proteins. The receptor proteins were used to design polypeptides, pref. based on the transmembrane domains, for use in G-protein coupled receptor ligand binding assays. The polypeptide fragments retain biological activity such as binding a GPR ligand or modulating GPR ligand binding to a GPR (see W02747-W02999 for examples of polypeptide fragments). The polypeptide fragments can be used in compositions for treating subjects suffering from a pathology related to a GPR abnormality e.g. a psychotic disorder such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human dopamine D1 receptor. catecholamine; G-protein-coupled receptor; neurotransmitter; adenylyl cyclase stimulation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R15498 standard; Protein; 446
R15498;
08-MAR-1992 (first entry)
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Sequence 373 AA;
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larity 75.0%;
Conservative
                                                                                                                                                                                                                         /label- Protein_kinase_A_phosphorylation_site
/note= "putative"
338. .343
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175
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/note= "VII"
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/note= "IV"
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/note= "II"
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Mabel= transmembrane
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/note= "I"
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"putative"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local 9
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OLT 10
R15499 standard; Protein: 4.
R15499;
R15499;
08-MAR--1992 (first entry)
Rat dopamine D1 receptor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         27-AUG-1990; 024096.
27-AUG-1990; CA-024096.
(SEEM/) SEEMAN P.
Niznik HB, Odowd BF, S
WPI; 93-197541/25.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Nucleotide base sequence of human dopamine D1 receptor comprises a region susceptible to restriction enzyme esp. Eco R1 useful for studying associated genetic disease Disclosure; Fig 1b; 7pp; English.

The full-length DNA sequence for the human dopamine D1 receptor was isolated from a lambda EMBL3 SP6-77 human genomic library. The library was probed by a known 450bp rat D1 clone. Thee positive clones with inserts of ca. 14kb were isolated. One of the clones was restriction analysed and sequenced to reveal an open reading frame of 1476 bp encoding a 446 amino acid protein. The D1 receptor belongs to the G-protein fammily; it regulates neuron growth and differentiation, influences behaviour and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    screening diagnosis of e.g. Parkinson's disease or schizophrenia or in gene therapy
Example 1; Fig 1B; 52pp; English.

The D1 dopamine receptor sequence was obtained from two overlapping clones, one genomic (HGLZ6) and the other from a human retina cDNA library (D233). The amino acid sequence was deduced from the nucleotide coding sequence. The receptor is similar to known G-protein coupled proteins, e.g. Cys(351) in the carboxyl terminus near transmembrane VII is conserved in most G-protein-coupled receptors; it may be palmitoylated. The carboxyl tail also contains several putative sites for phosphorylation by an agonist-dependent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dopamine D1 receptor; adenylate cyclase stimulation; cAMP-dependent protein kinase activation; psychomotor disorders; intronless gene; G-linked receptor family; neuron growth;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           modifies
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; Q43964.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CA2024096-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            neuron differentiation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human dopamine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R38364 standard; Protein; 446 R38364;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 91-369177/50.
N-PSDB; Q14954.
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                                                                                                                                                                                                                                        344 LLGCYRLC 351
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                                                                                                                                                                                                                                                                                                                                                                                                                                 D2 receptor-mediated events.
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llarity 75.0%;
Conservative
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                                                                                        Protein; 446
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75.0%;
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Pred. No. 2.89e+01;
1; Mismatches 1;
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Pred. No. 2
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2.89e+01;
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Best Local
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14-MAY-1990; US-523237.

17-SEP-1990; US-58852.

(UZDU-) DUKE UNIV.

(UYOR-) OREGON HEALTH SCI UNIV.

BUNZOW JR, Civelli O, Grandy DK, Zhou OY Dearry A, Falardeau P, Gingrich JA;
11-MAR-1997.

06-JUL-1990; 548714.

06-JUL-1990; US-548714.

01-MAR-1993; US-029917.

19-MAY-1995; US-444734.

(USSH) US DEPT HEALTH &
                                                                                                                                                                                                                                                                 D1 dopamine receptor.

D1 dopamine receptor; activation; adenylyl cyclase activity; coupled; guanine nucleotide binding regulatory protein; drug assessment; agoniantagonist; efficacy; affinity.
                                                                                                                                                    US5610282-A.
                                                                                                                                                                                                                                                                                                                                                                                                                          T 11
W09795 standard; Protein; 487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The Di dopamine receptor sequence was obtained from two overlapping clones, one genomic and the other from a rat striatum cDNA library. The amino acid sequence was deduced from the nucleotide coding sequence. The receptor is similar to the human Di dopamine receptor (see RI5498) and known G-protein coupled proteins, e.g. Cys(351) in the carboxyl terminus is conserved in most G-protein coupled receptors; it may be palmitoylated. The carboxyl tail also contains several putative sites for phosphorylation by an agonist-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cloned gene encoding D1-dopamine screening, diagnosis of e.g. Parl or in gene therapy Example 9; Fig 3A; 52pp; English.
                                                                                                                                                                                                        modified_site
                                                                                                                                                                                                                                                                                                                                                                            W09795;
11-JUN-1997 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dependent receptor kinase. sequence 446 AA;
                                                                                                                                                                                                                                                       Rattus rattus.
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N-PSDB; Q14955.
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llarity 75.0%;
Conservative
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                                                                                                                                                                                                                          Location/Qualifiers
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135
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                                                                                                                                                                              /note= "N-linked glycosylation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
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/note= "putative"
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"putative"
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"putative"
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Pred. No. 2.89e+01
1; Mismatches
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                                                                                                                                                                                                                                                            Disclosure: Fig 1A; 38pp; English.

The sequence was deduced from a clone isolated from a rat striatal CDNA library. The gene can be ligated into expression vectors of for prodn. of the D1 dopamine receptor. Hydrophobicity analysis revealed seven transmembrane spanning domains. The NH2 terminus contains one N-glycosylation site and the third cytoplasmic loop canbits one recognition site for phosphorylation by the cAMP-contains one N-glycosylation phosphorylation by the cAMP-contains one N-glycosylation site for phosphorylation by the cAMP-contains recognition site for phosphorylation by the cAMP-contains residues possibly representing additional contains several contains explanatory phosphorylation. The receptor couples with contains binding regulatory protein (G protein) and is linked to the stimulation of adenylyl cyclase. D1 receptor expressing cell clines can be used to investigate the affinities and efficacies of contains and antagonist drugs. For diagnostic purposes, expression of the receptor can be measured using e.g. antibodies to the
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Best L
                                                                                                                                                                                         Query Match
Best Local
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                                  W19001;
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(USSH) NAT INST OF HEALTH.
Sibley D. Monsma F, Mahan L,
WPI; 91-260183/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA encoding D1 dopamine receptor protein - for production of transformed cells used for drug screening Claim 1; Column 11-16; 24pp; English.

The sequence is the rat D1 dopamine receptor protein which is linked to the activation of adenyly1 cyclase activity. The receptor also couples with guanine nucleotide binding regulatory (G) proteins. By constructing cell lines that express the D1 receptor, the affinities and efficacies of
05-MAY-1998 (first entry) Feline herpes virus type 1 truncated ORF1-encoded protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       D1 receptor.
Disclosure; Fig 1A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA encoding D1, dopamine receptor - used to investigate affinities and efficacy of agonist and antagonist drugs v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; Q13337
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R13596 standard; Protein; 487 AA.
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N-PSDB; T63657.
                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mahan LC,
                                                                                                                               385 LLGCYRLC
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                                                                                                                13 ILECYRLC
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                                                standard;
                                                                                                                                                                                         h
Similarity: 75
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                                                                                                                                                                                                                                         487 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  l antagonist drugs can be assessed. 487 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35.0%;
llarity 75.0%;
Conservative
                                                                                                                                                                            Conservative
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1; M
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Pred. No. 2.89e+01;
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1. No. 2.89e+
Mismatches
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. 2.89e+01;
.~hes 1;
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                                                                                                                                                                                                      Length 487
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                                              New isolated protein kinase, eEF-2 - used to develop agents for controlling the amount, or activity of protein kinases, e.g. for treating cancers or other hyperproliferative pathologies Claim 6: Page 128-130; 195pp; English.

This protein is Caenorhabditis elegans elongation factor-2 kinase (eEF-2 kinase), a member of a new superfamily of eukaryotic protein kinases that phosphorylate within an alpha-helical domain of a target protein, as opposed to beta-turns as seen in all other protein kinases. eEF-2 kinase is a ubiquitous enzyme involved in the regulation of protein synthesis and the cell cycle. It has no homology to any other mammalian protein kinase, and is therefore an ideal target in the search for a specific protein kinase inhibitor. Since preliminary evidence suggests that human eEF-2 kinase (see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                    W09909193-A2.
25-FEB 1999.
20-AUC-1998: U17272.
20-AUC-1997: US-914999.
(UYNE-) UNIV NEW JERSEY.
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W98108 standa
W98108;
21-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Caenorhabditis elegans elongation factor-2 kinase (eEF-2 kinase). Elongation factor-2 kinase; eEF-2 kinase; nematode; protein kinase; inhibitor; breast cancer; therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  polypeptide coding sequence (especially a gene taken from the feline infectious peritonitis virus (FIPV)) is inserted into open reading frames 5 and/or 2. Vaccines comprising the vector are used to protect cats, specifically against FIPV. The vaccine is attenuated but retains a good capacity to replicate in vivo and still protects against infectious rhinotracheitis (caused by FHV).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Feline herpes virus type 1; open reading frame; ORF; vector; vaccine; feline infectious peritonitis virus; FIPV; cat; immunisation; rhinotracheitis.
Feline herpesvirus.
W09720059-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This sequence represent part of protein encoded by ORF1 from the feline herpes virus type 1 (FHV-1) from strain CO. The nucleotide sequence is used as a vector to generate a live recombinant vaccine, in which a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Live recombinant vaccine based on feline herpes virus - has antigen-encoding sequence inserted in open reading frame 2 or 5, particularly for protection against feline infectious peritonitis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (INMR ) RHONE MERIEUX SA. Audonnet JCF, Baudu PGN, Riviere MAE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             05-JUN-1997.
19-NOV-1996; F01830.
30-NOV-1995; FR-014450.
 w98106) is upregulated in human cancers, including breast cancer, identification of specific inhibitors of eEF-2 kinase may lead to the development of novel anticancer drugs. Assays have been
                                                                                                                                                                                                                                                                                                       N-PSDB; X24907
                                                                                                                                                                                                                                                                                                                       Hait WN, Pavur KS, Ryazanov WPI; 99-181050/15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Key
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Caenorhabditis elegans.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           standard; Protein; 768
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        "predicted amphipathic alpha-helix structure"
                                                                                                                                                                                                                                                                                                                                          AG;
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Pred. No. 2.89e+01;
4; Mismatches 6
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RESULT DIT ALL RESULT
Search completed: Sat May 13 09:11:17 2000 Job time : 7 secs.
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Best Local Similarity 42.1%;
Matches 8; Conservative
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Best Local Similarity 63.6%;
Matches 7; Conservative
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W05621020-A2.

11_JUL-1996.

05-JAN-1996; U00418.

06-JAN-1995; US-369822.

04-MAY-1995; US-3434831.

04-JAN-1996; US-582776.

(REGC) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Borna disease virus (BDV) nucleotide and protein sequences - useful for the diagnosis and treatment of infection and non-BDV related neuro-logic and neuro-psychiatric disease
Claim 2; Fig 2; 185pp; English.
Borna disease virus (BDV) polymerase (R98619), or pol or p180, was identified from an ORF on the virus antigenome strand (T38104).
The amino acid sequence for pol after splice modification is given in R98605. Recombinant pol (recpol) can be expressed in transformed host (partic mammalian) cells. It is useful in assays for detecting BDV infection and for diagnosing non-BDV related neurologic and neuropsychiatric diseases. It may also be incorporated into vaccines and used to raise anti-BDV antibodies.
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                                                                                                                                                                                                                      1324 VEETNDFTARGHHHGCYSL 1342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Borna disease virus polymerase.
Borna disease virus; BDV; G-protein; p57; nervous system disease;
neuro-psychiatric disease; schizophrenia; diagnosis; therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ת 15.
R98619 standard; Protein; 1608 AA.
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10-DEC-1996 (first entry)
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                                                                                                                                                     VKEDHOFETRGEILECYRL 19
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                                                                                                                                                                                                                                                                                                  Score 63; DB 1; L
Pred. No. 3.65e+01;
3; Mismatches 8
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Pred. No. 3.65e+01;
2; Mismatches 2
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